

Product Datasheet

ATF4 Antibody (S360A-24) - BSA Free NBP2-42176

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-42176

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-42176



NBP2-42176

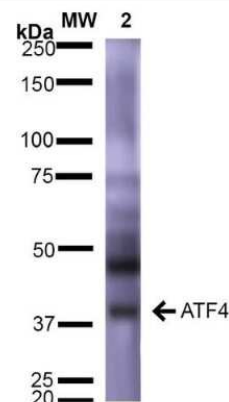
ATF4 Antibody (S360A-24) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	S360A-24
Preservative	0.1% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse ATF4 Antibody (S360A-24) - BSA Free (NBP2-42176) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	468
Gene Symbol	ATF4
Species	Human, Rat
Specificity/Sensitivity	Less than 50% identity with ATF5. Detects approx 60kDa. Does not cross-react with ATF5.
Immunogen	Fusion protein amino acids 25-327 of human ATF4. 86% identical to rat, and 85% identical to mouse. <50% identity with ATF5.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence
Application Notes	1 ug/ml of ATF4 Antibody was sufficient for detection of ATF4 in 20 ug of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.



Images

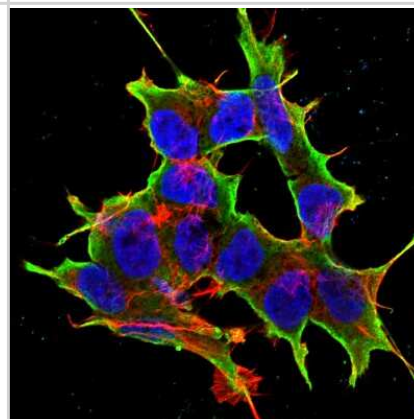
Western Blot: ATF4 Antibody (S360A-24) [NBP2-42176] - Western Blot analysis of Rat Brain showing detection of ~39 kDa (isoform 2) ATF4 protein using Mouse Anti-ATF4 Monoclonal Antibody, Clone S360A-24 (NBP2-42176). Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Brain. Load: 15 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-ATF4 Monoclonal Antibody (NBP2-42176) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~39 kDa (isoform 2).



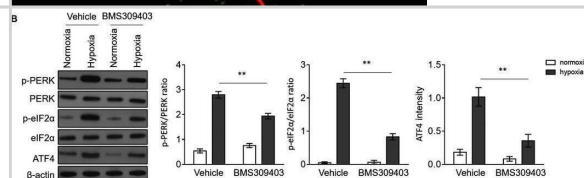
Immunocytochemistry/Immunofluorescence: ATF4 Antibody (S360A-24) [NBP2-42176] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-ATF4 Monoclonal Antibody, Clone S360A-24 (NBP2-42176). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-ATF4 Monoclonal Antibody (NBP2-42176) at 1:200 for overnight at 4C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) ATF4 Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence: ATF4 Antibody (S360A-24) [NBP2-42176] - Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-ATF4 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Cytoplasm, Cell Membrane. Magnification: 60X.



FABP4 inhibitor BMS309403 attenuates ER stress in cardiomyocytes exposed to hypoxia. (A, B) H9c2 cardiomyocytes were cultured under normoxia or hypoxia condition for 24 h in the presence or absence of 50 uM BMS309403. The protein expressions of GPR78, CHOP and caspase \square 12 (A), and p \square PERK, PERK, p \square eIF2 α , eIF2 and ATF4 (B) were determined by Western blot analysis. β actin is the internal control. The quantification analysis of protein expression is shown in the right. Student's t test (n = 3). **, P < 0.01 Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32896039>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-42176

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-42176

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

